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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,818	10/15/2001	Ricki Dee Williams	2070.005100	4512
759	7590 04/07/2006		EXAMINER	
B. Noel Kivlin			MANOSKEY, JOSEPH D	
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Auistin, TX 78767-0398			ART UNIT	PAPER NUMBER
			2113	
			DATE MAILED: 04/07/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/977,818	WILLIAMS ET AL.
	Office Action Summary	Examiner	Art Unit
		Joseph D. Manoskey	2113
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period vare to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
•	Responsive to communication(s) filed on <u>11 Jac</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 10,12-16,28 and 30-38 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 10,12-16,28 and 30-38 is/are rejected Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.	
Applicat	ion Papers		
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>15 October 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority (	under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority documents  application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
	e of References Cited (PTO-892)	4)	
3) 🔲 Infor	te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		rate Patent Application (PTO-152)

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 10, 12-16, 28, and 30-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Meir et al., U.S. Patent 5,652,893, hereinafter referred to as "Ben-Meir" in view of Edmonds et al., U.S. Patent 6,412,079 hereinafter referred to as "Edmonds".
- 3. Referring to claim 10, Ben-Meir discloses the use of a first and second power supply that are connected to backplane. Ben-Meir also teaches the lines being redundant (See Fig. 1, Col. 2, lines 1-8, and Col. 3, lines 15-38). This is interpreted as a first redundant source of power adapted to provide power to a first split path, and a second redundant source of power adapted to provide power to a second split path, wherein the first and second split paths are adapted to transmit signals.

Ben-Meir does not teach a first portion and a second portion of a message, wherein the first and second split paths are adapted to convey signal corresponding to a first portion and a second portion of a message, respectively in parallel from a source

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to a destination, however Ben-Meir does teach redundant transmission and reception lines (See Col. 2, lines 2-4). Edmonds teaches a dual backplanes that can perform the same task in an active/active manner and teaches parallelism, this would include the same message being transmitted on both backplanes, thus a first portion would be on a first split path and a second portion would be on a second split path (See Fig. 3 and Col. 6, lines 17-19 and Col. 9, lines 44-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the two parallel backplanes of Edmonds with the redundant power supplies of Ben-Meir. This would have been obvious to one of ordinary skill in the art at the time of the invention to do because the both Edmonds and Ben-Meir show a desire to use redundancy in order to be as close to a hundred percent availability as possible (See Edmonds, Col. 6, lines 17-22 and Ben-Meir, Col. 1, lines 60-62).

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4. Referring to claims 12 and 13, Ben-Meir and Edmonds teach all the limitations (See rejection of claim 10) including the use of redundant power supplies and redundant lines, this is interpreted as a first redundant source of power comprises a first and second power supply adapted to provide a first and second portion of power to the first split path and a second redundant source of power comprises a third and fourth power supply adapted to provide a third and a fourth portion of power to the second split path (See Ben-Meir, Fig. 1, Col. 2, lines 1-8, and Col. 3, lines 15-38).

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5. Referring to claim 14, Ben-Meir and Edmonds disclose all the limitations (See rejection of claim 10) including the use of an environment monitor, this interpreted as an environmental system monitoring demon adapted to detect malfunctions in the first, second, third and fourth power supplies (See Ben-Meir, Fig. 1 and Col. 3, lines 21-28).

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- 6. Referring to claim 15 and 16, Ben-Meir and Edmonds teach all the limitations (See rejection of claim 14) including power management determining power allocation and dealing with power failures (See Ben-Meir, Col. 4, lines 39-43) and Ben-Meir teaches the use of redundant lines and having a third and fourth power supply (See Ben-Meir, Fig. 1 and Col. 2, lines 1-8). This is interpreted as the ESMD being adapted to instruct the system control unit to transmit messages along the second split path if the first split path becomes substantially unable to transmit messages because the first and second power supplies become substantially unable to provide power to the first split path and adapted to instruct the system control unit to transmit messages along the first split path if the second split path becomes substantially unable to transmit messages because the third and fourth power supplies become substantially unable to provide power to the second split path.
- 7. Referring to claim 28, Ben-Meir discloses the use of a first and second power supply that are connected to backplane. Ben-Meir also teaches the lines being redundant (See Fig. 1, Col. 2, lines 1-8, and Col. 3, lines 15-38). This is interpreted as a method providing a first redundant source of power to a first split path, and providing a

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second redundant source of power to a second split path, wherein the first and the second split paths are adapted to transmit signals. Ben-Meir also teaches managing the power system with a power management system, this interpreted as managing the first and second redundant sources of power (See Col. 3, lines 29-38).

Ben-Meir does not teach a first portion and a second portion of a message, wherein the first and second split paths are adapted to convey signal corresponding to a first portion and a second portion of a message, respectively in parallel from a source to a destination, however Ben-Meir does teach redundant transmission and reception lines (See Col. 2, lines 2-4). Edmonds teaches a dual backplanes that can perform the same task in an active/active manner and teaches parallelism, this would include the same message being transmitted on both backplanes, thus a first portion would be on a first split path and a second portion would be on a second split path (See Fig. 3 and Col. 6, lines 17-19 and Col. 9, lines 44-45). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the two parallel backplanes of Edmonds with the redundant power supplies of Ben-Meir. This would have been obvious to one of ordinary skill in the art at the time of the invention to do because the both Edmonds and Ben-Meir show a desire to use redundancy in order to be as close to a hundred percent availability as possible (See Edmonds, Col. 6, lines 17-22 and Ben-Meir, Col. 1, lines 60-62).

8. Referring to claims 30 and 31, Ben-Meir and Edmonds teach all the limitations (See rejection of claim 28) including the use of redundant power supplies and redundant

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lines, this is interpreted as a first redundant source of power comprises a first and second power supply adapted to provide a first and second portion of power to the first split path and a second redundant source of power comprises a third and fourth power supply adapted to provide a third and a fourth portion of power to the second split path (See Ben-Meir, Fig. 1, Col. 2, lines 1-8, and Col. 3, lines 15-38).

- 9. Referring to claim 32, Ben-Meir and Edmonds disclose all the limitations (See rejection of claim 28) including the use of an environment monitor, this interpreted as managing the first and second redundant power supplies comprises determining if the first, second, third, and fourth power supplies are malfunctioning (See Ben-Meir, Fig. 1 and Col. 3, lines 21-28).
- 10. Referring to claim 33 and 34, Ben-Meir and Edmonds teach all the limitations (See rejection of claim 28) including power management determining power allocation and dealing with power failures (See Ben-Meir, Col. 4, lines 39-43) and Ben-Meir teaches the use of redundant lines and having a third and fourth power supply (See Ben-Meir, Fig. 1 and Col. 2, lines 1-8). This is interpreted as instructing the system to transmit messages along the second split path if the first split path becomes substantially unable to transmit messages because the first and second power supplies become substantially unable to provide power to the first split path and adapted to instruct the system control unit to transmit messages along the first split path if the second split path becomes substantially unable to transmit messages because the third

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and fourth power supplies become substantially unable to provide power to the second split path.

- 11. Claims 35-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Meir and Edmonds in view of Weinstein, U.S. Patent 5,939,799, hereinafter referred as "Weinstein".
- 12. Referring to claims 35 and 36, Ben-Meir and Edmonds discloses all the limitations (See rejection of claim 10) except for the power distribution network comprising a first and second capacitor network comprising at least one capacitor coupled to the first split path and adapted to store the portion of power provided by the first or second power supply for a selected duration, however Ben-Meir does teach having redundant power sources and a desire to prevent any amount of downtime from the failure of a power supply (See Col. 3, lines 15-28). Weinstein teaches the use of capacitors and a switch connected to the power supplies that supply power to a load during a switch from a first to a second power supply (See Col. 1, lines 60-64).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the switch and capacitors of Weinstein with the redundant power supplies of Ben-Meir and Edmonds. This would have been obvious to one of ordinary skill in the art at the time of the invention to do because it prevents any interruption or downtime of the power during switching (See Weinstein, Col. 1, lines 60-64).

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13. Referring to claim 37, Ben-Meir, Edmonds, and Weinstein teach all the limitations (See rejection of claim 36) including the system having a power management system, this interpreted as the first and second capacitor networks coupled in a current sharing design to substantially provide redundant power to the first split path reducing the chance that a malfunction in one power supply will introduce errors into signals transmitted along the first split path and compromise the function of the system (See Ben-Meir, Col. 3, lines 29-38).

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14. Referring to claim 38, Ben-Meir, Edmonds, and Weinstein disclose all the limitations (See rejection of claim 36) including the system having a switch to switch between the first and second power supplies, this is interpreted as a the first and second capacitor networks coupled at a switch that substantially provides redundant power to the first split path, reducing the chance that a malfunction in one power supply will introduce errors into signals transmitted along the first split path and compromise the function of the system (See Weinstein, Col. 1, lines 60-64).

## Response to Arguments

15. Applicant's arguments filed 11 January 2006 have been fully considered but they are not persuasive. The Applicant argues neither Ben-Meir or Edmonds teach "a first redundant source of power adapted to provide power to a first split paths" or "a second redundant source of power adapted to provide power to a second split path, wherein the first and second split paths are adapted to convey signals corresponding to a first

destination." The Examiner respectfully disagrees.

have been modified to include this clarification.

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portion and a second portion of a message, respectively in parallel from a source to a

Ben-Meir discloses the use of a first and second power supply that are connected to backplane. Ben-Meir also teaches the lines being redundant (See Fig. 1, Col. 2, lines 1-8, and Col. 3, lines 15-38). This is interpreted as a first redundant source of power adapted to provide power to a first split path, and a second redundant source of power adapted to provide power to a second split path, wherein the first and second split paths are adapted to transmit signals. Edmonds teaches a dual backplanes that can perform the same task in an active/active manner and teaches parallelism, this would include the same message being transmitted on both backplanes, thus a first portion would be on a first split path and a second portion would be on a second split path (See Fig. 3 and Col. 6, lines 17-19 and Col. 9, lines 44-45). The above rejections

#### Conclusion

16. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph D. Manoskey whose telephone number is (571) 272-3648. The examiner can normally be reached on Mon.-Fri. (7:30am to 4pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JDM March 31, 2006 ROBERT BEAUSOLIEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100